BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of Work: Drilling of Borewell and providing pump and motor laying pipeling in ward No. 06, Jakkur surrounding area

Est Cost : 6000000.00

ಅಂದಾಜು ಪಟ್ಟಿಯ ವರದಿ

ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 06(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Drilling of Borewell and providing pump and motor laying pipeling in ward No. 06, Jakkur surrounding area ಕಾಮಗಾರಿ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: ಮಾನ್ಯ ಆಡಳಿತಗಾರರು, ಬಿಬಿಎಂಪಿ ರವರು ದಿನಾಂಕ: 06.08.2024 ರಂದು ನಡೆದ ಸಭಾ ನಡವಳಿ ವಿಷಯ ಸಂಖ್ಯೆ. 95/2024-25

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 06(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Drilling of Borewell and providing pump and motor laying pipeling in ward No. 06, Jakkur surrounding area ಕಾಮಗಾರಿಗೆ ರೂ. 60.00 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಉಲ್ಲೇಖದನ್ವಯ ಮಾನ್ಯ ಆಡಳಿತಗಾರರು, ಬಿಬಿಎಂಪಿ ರವರ ದಿನಾಂಕ: 06.08.2024 ರ ನಡವಳಿ ವಿಷಯದ ಸಂಖ್ಯೆ. 95/24-25ರಲ್ಲಿ ಅನುಮೋದಿಸಿರುವಂತೆ 2024-25 ನೇ ಸಾಲಿನ ಲೆಕ್ಕಶಿರ್ಷಿಕೆ ಪಿ-1802ರ ಅಡಿಯಲ್ಲಿ ಮೀಸಲಿಟ್ಟ ಅನುದಾನದಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿರುತ್ತದೆ.

ಅದರಂತೆ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಹೊಸದಾಗಿ ಬೋರ್‌ವೆಲ್ ಕೊರೆದು ಸಾರ್ವಜನಿಕರಿಗೆ ಕುಡಿಯುವ ನೀರಿನ ಸರಬರಾಜು ಮಾಡುವ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ, ಅಗತ್ಯ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ಹೊಸದಾಗಿ ಕೊಳವೆ ಬಾವಿಗಳನ್ನು ಕೊರೆದು ಪಂಪು ಮತ್ತು ಮೋಟರ್ ಅಳವಡಿಸುವುದು
2. ಪಿ.ವಿ.ಸಿ ಕೇಬಲ್ ಅಳವಡಿಸುವುದು.
3. ಜಿ.ಐ ಪೈಪ್‌ಗಳನ್ನು ಅಳವಡಿಸುವುದು.
4. ಪ್ಯಾನೆಲ್ ಬೋರ್ಡ್‌ಗಳನ್ನು ಅಳವಡಿಸುವುದು.
5. ಎಂ.ಸಿ.ಬಿ, ಫ್ಯೂಸ್‌ಚೆನಲ್ಸ್ ಗಳನ್ನು ಅಳವಡಿಸುವುದು
6. ಎಂ.ಎಸ್ ಬಾಕ್ಸ್, ಗೇಟ್‌ವಾಲ್ವ್‌ಗಳನ್ನು ಅಳವಡಿಸುವುದು
7. ಸದರಿ ಬೋರ್‌ವೆಲ್‌ಗಳಿಗೆ ವಿದ್ಯುದ್ಧೀಕರಣ ಮಾಡುವುದು.
8. ಕುಡಿಯುವ ನೀರಿನ ಸರಬರಾಜು ಮಾಡಲು ಕೊಳವೆ ಸಾಲುಗಳನ್ನು ಅಳವಡಿಸುವುದು. ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು PWD SR 2023-24, PWD Ele SR 2023-24 ದರಪಟ್ಟಿ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ 2024-25ನೇ ಸಾಲಿನ ಲೆಕ್ಕ ಶಿರ್ಷಿಕೆ ಪಿ-1802ರ ಅಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ಕಾಮಗಾರಿಯನ್ನು ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ಕೋರಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Drilling of Borewell and providing pump and motor laying pipeling in ward No. 06, Jakkur surrounding area

									Estimation Cost.Rs	**6000000.00**
Sl No	**Description of work**	**Mesurement**					**Unit**	**Qty**	**Rate**	**Amount**
			No.	**L**	**B**	**D**				
1	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including econnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test (PWD SR 2023-24 Vol-V Page No.140, Item No.12.4)						Each BW			
			5					**5**	5288.00	**26440.00**
	Basic Rate	5288.00								
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimumworking of compressor for one hour (Excluding cost of casing pipes,collars, cap etc., complete) (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.1) 0-50mtrs						Rmtr			
			5	50.00				**250.00**	370.00	**92500.00**
	Basic Rate	370.00								
A	50-100mtrs(PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.2)		5	50.00			Rmtr	**250.00**	464.00	**116000.00**
	Basic Rate	464.00								

Sl No	Description of work		Mesurement No.	L	B	D	Unit	Qty	Rate	Amount
B	100-150mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.3)		5	50.00			Rmtr	**250.00**	493.00	**123250.00**
	Basic Rate	493.00								
C	150-200mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.4)		5	50.00			Rmtr	**250.00**	572.00	**143000.00**
	Basic Rate	572.00								
D	200-250mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.5)		5	50.00			Rmtr	**250.00**	671.00	**167750.00**
	Basic Rate	671.00								
E	250-300mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.6)		5	50.00			Rmtr	**250.00**	740.00	**185000.00**
	Basic Rate	740.00								
F	300-350mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.7)		5	50.00			Rmtr	**250.00**	868.00	**217000.00**
	Basic Rate	868.00								
G	350-400mtrs (PWD SR 2023-24 Vol-V Page No.139, Item No.12.1.8)		5	50.00			Rmtr	**250.00**	937.00	**234250.00**
	Basic Rate	937.00								
3	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m. prices include Collar-Medium duty. (PWD SR 2023-24 Vol-V Page No.143, Item No.12.32)						Rmtr			
			5	60.00				**300.00**	1933.00	**579900.00**
	Basic Rate	1933.00								
4	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge (PWD SR 2023-24 Vol-V Page No.143, Item No.12.34)						Each			
			5					**5.00**	164.00	**820.00**

Sl No	Description of work		Mesurement				Unit	Qty	Rate	Amount
			No.	L	B	D				
	Basic Rate	164.00								
5	Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (PWD Electrical SR 2023-24 Vol-VI Page No.20, Item No.5.42.2)						Sq.cm			
			10	120	25			**30000**		
			10	120	60			**72000**		
			10	60	25			**15000**		
								117000	0.43	**50310.00**
	Basic Rate	0.43								
6	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendments if any (PWD SR 2023-24 Vol-V Page No.131, Item No.11.12.6)						Each			
			5					**5**	267.00	**1335.00**
	Basic Rate	267.00								
7	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. (PWD SR 2023-24 Vol-V Page No132, Item No.11.14.6)						Each			
			5	3				**15**	213.00	**3195.00**
	Basic Rate	213.00								
8	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for: (PWD SR 2023-24 Vol-V Page No.129, Item No.11.7.6)						Each			
			5	3				**15**	267.00	**4005.00**
	Basic Rate	267.00								
9	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work. (PWD SR 2023-24 Vol-V Page No.156, Item No.13.32)						Job			
			5					**5**	6500.00	**32500.00**
	Basic Rate	6500.00								

Sl No	Description of work		Mesurement				Unit	Qty	Rate	Amount
			No.	L	B	D				
10	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work.(PWD SR 2023-24 Vol-V Page No.156, Item No.13.33)						Job			
			5					**5**	1450.00	**7250.00**
	Basic Rate	1450.00								
11	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm) (PWD Electrical SR 2023-24 Vol-VI P-No 13 I/No-32.5)						Km			
	For New borewells		5	0.015				**0.08**		
								0.08	141842.00	**10638.15**
	Basic Rate	141842								
12	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia (PWD SR 2023-24 Vol-V Page No.157, Item No.13.39)						Job			
			5					**5**	3750.00	**18750.00**
	Basic Rate	3750.00								
13	Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm (PWD SR 2023-24 Vol-V Page No.136, Item No.13.38.1)						Each			
			5					**5**	375.00	**1875.00**
	Basic Rate	375.00								
14	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" (PWD Electrical SR 2023-24 Vol-VI Page No.41, Item No.5.6.6)						each			
			5					**5**	326.13	**1630.65**
	Basic Rate	326.13								

Sl No	Description of work		Mesurement No.	L	B	D	Unit	Qty	Rate	Amount
15	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" (PWD SR 2023-24 Vol-V Page No.153, Item No.13.19.6)						Each			
			5					**5**		
								5	77963.00	**389815.00**
	Basic Rate	77963.00								
16	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) 50 MM Dia (PWD SR 2023-24 Vol-V Page No.155, Item No.13.27)						Each			
			5	58				290.00		
								290.00	3050.00	**884500.00**
	Basic Rate	3050.00								
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 (PWD Electrical SR 2023-24 Vol-VI Page No.7, Item No.2.6.3)						Mtr			
			5	750.00				**3750.00**		
								3750.00	245.00	**918750.00**
	Basic Rate	245.00								
18	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP (PWD Electrical SR 2023-24 Vol-VI Page No.14, Item No.5.2.2)						Each			
			5					**5.00**	8764.00	**43820.00**
	Basic Rate	8764.00								
19	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2023-24 Vol-V Page No.133, Item						Each			
			5					**5**		
								5	1688.00	**8440.00**
	Basic Rate	1688.00								
20	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2023-24 Vol-V Page No.154, Item No.13.25)						Each			
			5					**5.00**	1250.00	**6250.00**

Sl No	Description of work		Mesurement No.	L	B	D	Unit	Qty	Rate	Amount
	Basic Rate	1250.00								
21	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. (PWD SR 2023-24 Vol-V Page No.155, Item No.13.26)						Per 3 Pole			
			5					**5.00**		
								5.00	1150.00	**5750.00**
	Basic Rate	1150.00								
22	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete…. (PWD Electrical SR 2023-24 Vol-VI Page No.14, Item No.5.7)						No.			
			5	3				**15**		
	63 Amps							**15.00**	401.00	**6015.00**
	Basic Rate	401.00								
23	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata.(PWD SR 2023-24 Vol -I Pg No 10 item no 1.17.1) All kinds of soils. Depth upto 1.50 m						Cum			
			5	272.00	0.60	0.60		**489.60**		
								489.60	288.20	**141102.72**
	Basic Rate	262.00								
	10% Area Weightage	26.20								
	Total	288.20								
24	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete.75mm(weight of pipe -0.917 kg) (PWD SR 2023-24 Vol-V Page No.113, Item No.10.1.5)						Mtr			
			5	272.00				**1360.00**		
								1360.00	220.00	**299200.00**
	Basic Rate	220.00								

Sl No	Description of work		Mesurement No.	L	B	D	Unit	Qty	Rate	Amount
25	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (PWD SR 2023-24 Vol -I Pg No 7 item no 1.10)						Cum			
	For Connecting borewell		5	272.00	0.60	0.60		**489.60**		
								489.60	176.00	**86169.60**
	Basic Rate	160.00								
	10% Area Weightage	16.00								
	Total	176.00								
26	BESCOM Deposit Charges		5				L/s	**5**	30000	**150000.00**
									Total	**4957211.00**
									Add 18% GST	**892298.00**
									Add 3% Tender Primium	**148716.00**
									Miscellenious and round off	**1775.00**
									Grand Total Amount	**6000000.00**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on PWD SR 2023-24, PWD Ele SR 2023-24

Assistant Engineer
Ward No.

Assistant Executive Engineer
Byatarayanapura Sub Division

Executive Engineer
Byatarayanapura Division

ADMINISTRATIVE SANCTION

Accorded for Rs. 60.00 Lakhs

Head of A/c. P-1802

Div. Ref. No. 93 Date. 18/12/24

AE(BM)

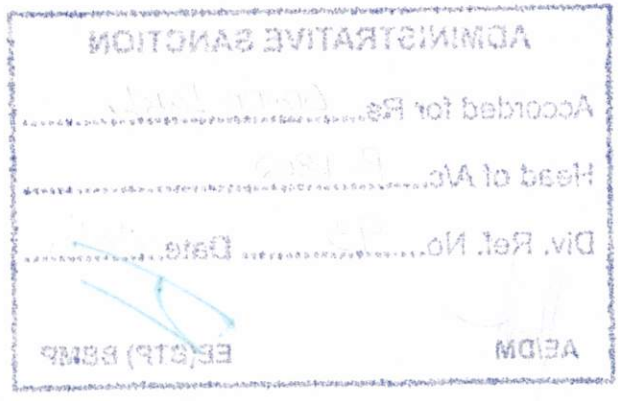
EE(BTP) BBMP

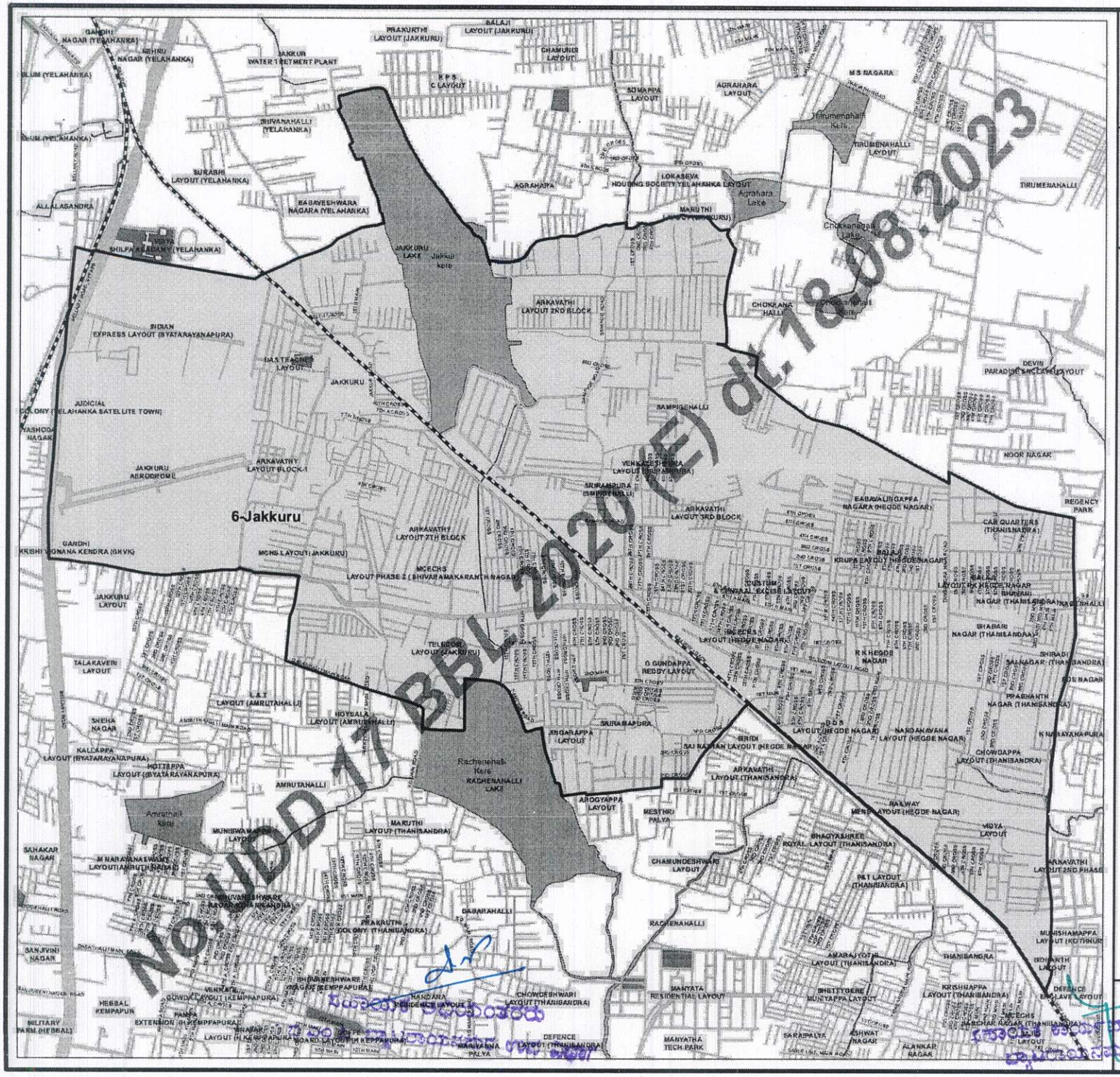
Technical Sanction

Accorded For Rs. 60.00 Lakhs

Head of A/C. P1802

CER NO :...109..... Dt: 5/11/24


ADMINISTRATIVE SANCTION
Accorded for Re
Head of Ac
Div. Rel. No
Date
AE/DM
EE(STP) BBMP



N

W E

S

Delimitation of Wards in BBMP - 2023

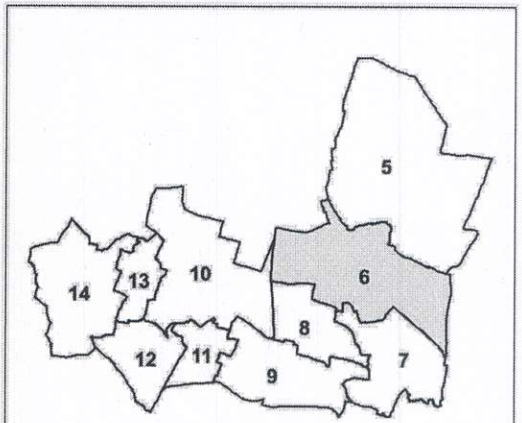
Ward Name

6-Jakkuru

Legend

- Delimited Ward Boundary
- Delimited Ward Area
- Road
- Railwayline
- Park
- Tank/ Pond/ Storm Water Drain

152- Byatarayanapura AC



Government of Karnataka Notification
No.UDD 17 BBL 2020 (E) dt.18.08.2023

Delimitation Commission